

10. The process for producing a photocatalyst module according to claim 6 wherein the formation of said layer of a photocatalyst is carried out by a flame spray coating method.

11. A photocatalyst reaction apparatus provided with a photocatalyst module defined in claim 1.

12. A photocatalyst reaction apparatus comprising a water tank provided with a photocatalyst module defined in claim 1, water introducing means, water discharging means, and means for radiating ultraviolet rays.

Please add claims 16-20 as follows:

16. The photocatalyst module according to claim 2 wherein said photocatalyst is titanium oxide.

17. The photocatalyst module according to claim 3 wherein said photocatalyst is titanium oxide.

18. The photocatalyst module according to claim 2 wherein said photocatalyst is in a shape of a layer of particles.

19. The photocatalyst module according to claim 3 wherein said photocatalyst is in a shape of a layer of particles.

20. The photocatalyst module according to claim 4 wherein said photocatalyst is in a shape of a layer of particles.